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February 10, 1987

PLEASE RETURN

Re: Preliminary Environmental Review
for Yellowstone Club Estates
Association Sewage Sludge
Disposal Site.

Yellowstone County Commissioners, Box 35000, Billings, MT. 59107
James Van Arsdale, Mayor, City of Billings, Box 1178, Billings, MT. 59103
Louis Ladas, R.S., Yellowstone City-County Health Dept., Box 35033, Blgs., 59107
Amos Jarrett, 5944 San Sneed Trail, Billings, MT. 59106
Yellowstone Club Estate Owners Assoc., Inc., 3133 Ben Hogan Place, Blgs., 59106
Bill Arnold, Subdivision Coordinator, Yellowstone Co. Planning Dept., 510 North
Broadway, Billings, MT., 59101
David Doty, District Conservationist, 1629 Ave D, Bldg. A, Suite 7, Blgs., 59102
Darwin Johnson, Golden Acres Partners, 3824 Audubon Way, Billings, MT. 59102
Environmental Quality Council, Capital Complex, Helena, MT. 59620
Tom Ellerhoff, Environmental Sciences Div., DHES, Cogswell Bldg., Helena, 59620
Document Section, State Library, Capital Complex, Helena, MT. 59620
Jim Leiter, Solid & Hazardous Waste Bureau, Cogswell Bldg, Helena, MT. 59620

Ladies and Gentlemen:

Pursuant to the Administrative Rules of Montana, 16.2.604, the following Preliminary Environmental Review has been prepared by the Department of Health and Environmental Sciences concerning the proposed Yellowstone Club Estates Association Sewage Sludge Disposal Site, Billings, Montana.

The purpose of the Preliminary Environmental Review is to inform all interested governmental agencies, public groups, or individuals of the proposed action and to determine whether or not the action may have a significant effect on the environment. This Preliminary Environmental Review will be circulated for a period of fifteen (15) days at which time a decision will be made as to our future action.

If you have care to comment on this proposed action, please do so within the allotted time. Your comments can be sent to me in care of the Department of Health and Environmental Sciences, Solid & Hazardous Waste Bureau, Box 20296, Billings, MT. 59104-0296.

Sincerely,

Scott M. Peterson

Scott M. Peterson
Solid & Hazardous Waste Bureau
Billings Regional Office

RETURN

DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES
Cogswell Building, Helena, Montana 59601
(406) 444-2821

PRELIMINARY ENVIRONMENTAL REVIEW

Division/Bureau Environmental Sciences Division/Solid & Hazardous Waste Bureau

Project or Application Yellowstone Club Estates Association

Description of Project Sewage Sludge Disposal License Application

Sewage sludge from the Yellowstone Country Club sewage treatment plant is to be
land spread in the SW 1/4 Sec. 25 - T1N - R24E, Yellowstone County. This is
fallowed farming ground to the east of the Yellowstone Country Club. The
Country Club has been previously licensed twice and has been forced to relocate
as they have exhausted their present ten acre site. Sewage sludge will enhance
nitrogen for small grain crops planted in these fallowed fields.

POTENTIAL IMPACT ON PHYSICAL ENVIRONMENT

	Major	Moderate	Minor	None	Unknown	Comments on Attached Pages
1. Terrestrial & aquatic life and habitats				X		
2. Water quality, quantity and distribution				X		
3. Geology & soil quality, stability and moisture				X		
4. Vegetation cover, quantity and quality			X			X
5. Aesthetics				X		X
6. Air quality				X		X
7. Unique, endangered, fragile, or limited environmental resources				X		
8. Demands on environmental resources of land, water, air & energy				X		
9. Historical and archaeological sites				X		

POTENTIAL IMPACTS ON HUMAN ENVIRONMENT

	Major	Moderate	Minor	None	Unknown	Comments on Attached Pages
1. Social structures and mores				X		
2. Cultural uniqueness and diversity				X		
3. Local and state tax base & tax revenue				X		
4. Agricultural or industrial production				X		
5. Human health				X		
6. Quantity and distribution of community and personal income				X		
7. Access to and quality of recreational and wilderness activities				X		
8. Quantity and distribution of employment				X		
9. Distribution and density of population and housing				X		
10. Demands for government services			X			X
11. Industrial & commercial activity				X		
12. Demands for energy				X		
13. Locally adopted environmental plans & goals				X		
14. Transportation networks & traffic flows				X		

Other groups or agencies contacted or which may have overlapping jurisdiction _____

Individuals or groups contributing to this PER. Amos Jarrett

Recommendation concerning preparation of EIS No EIS necessary

PER Prepared by: Scott M. Peterson
Scott M. Peterson

Date: 2/10/87

GENERAL COMMENTS

The Yellowstone Club Estates Owners Association has applied for a license to dispose of the sewage sludge generated by the Club's mechanical treatment plant. The proposed plan calls for disposing of the sludge by land spreading or directly injecting it into fallow grain land. If applied by land spreading technique, disking will immediately follow. According to a November 7, 1986 report by David Jones, Environmental Engineer in the Soil Conservation Service, United States Department of Agriculture, sludge could initially be applied at a rate of 15,000 gallons per acre. The estimated sludge volume is 16,000 to 18,000 gallons per month. This application is for approximately one quarter of a section (160 acres) of which half is normally in a fallow state. This fallow ground would be used for sludge application.

POTENTIAL IMPACT ON PHYSICAL ENVIRONMENT

4. Vegetative Cover, Quantity and Quality
The sludge application area must be plowed or disked after sludge is applied. This will not alter native vegetation as the application area is already plowed fallow ground. Next year's crop will be planted in these areas and past sludge applications will enhance available nitrogen for this crop.
5. & 6. Aesthetics and Air Quality
There should be no impacts on aesthetics or air quality associated with this operation. If there are impacts it will be due to odor problems. If odors become a nuisance, the Yellowstone Club Estates Owners Association will be ordered to change their application process or cease sludge disposal at this site.

POTENTIAL IMPACT ON HUMAN ENVIRONMENT

10. Demands for Governmental Services
The sludge disposal operation and site will be periodically inspected by the Solid and Hazardous Waste Bureau staff for compliance with applicable laws, rules, and license conditions. This should not significantly increase demands on governmental services.





